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Abstract

A machine for lifting and handling loads with an orientable articulated placing jib, comprising a mast with a rotating pivot, an articulated jib (16) comprising a jib foot (19), articulated at its first end on the top of the mast by a horizontal rotation axis (27), a jib head member (18) articulated for rotation by a horizontal articulation axis (32) at the second end of the jib foot, a jib holding assembly comprising at least one stanchion (7), a jib holding line (11) and a moving counterweight (100) connected to the jib by the said holding line. The counterweight is made to follow a guiding track (1) with a variable slope (α) , integral with the rotating pivot, supporting the said counterweight, arranged opposite to the jib, and where the variations in slope (α) are chosen so that the counterweight exerts a set of variable forces on the said jib and on the structure of the said machine, helping to balance the machine during movements of deployment/retraction of the jib in articulated working mode.